PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 157 AND SEARLES ROAD IN BALTIMORE COUNTY.

MD 157 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

THE INTERSECTION OPERATION WILL BE CHANGED FROM NEMA SIX PHASE TO A NEMA FOUR PHASE. ELIMINATING THE LEFT TURN PHASES FOR N.B. AND S.B. MD 157.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH WITH VIDEO DETECTION FOR SIDE STREETS.

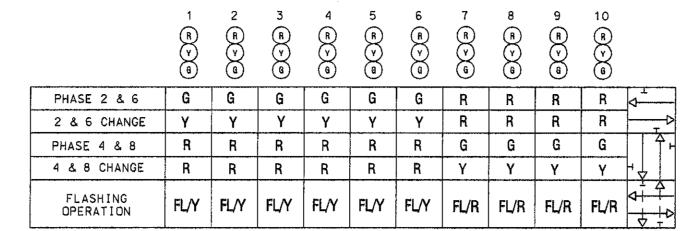
CONTROLLER REQUIREMENTS

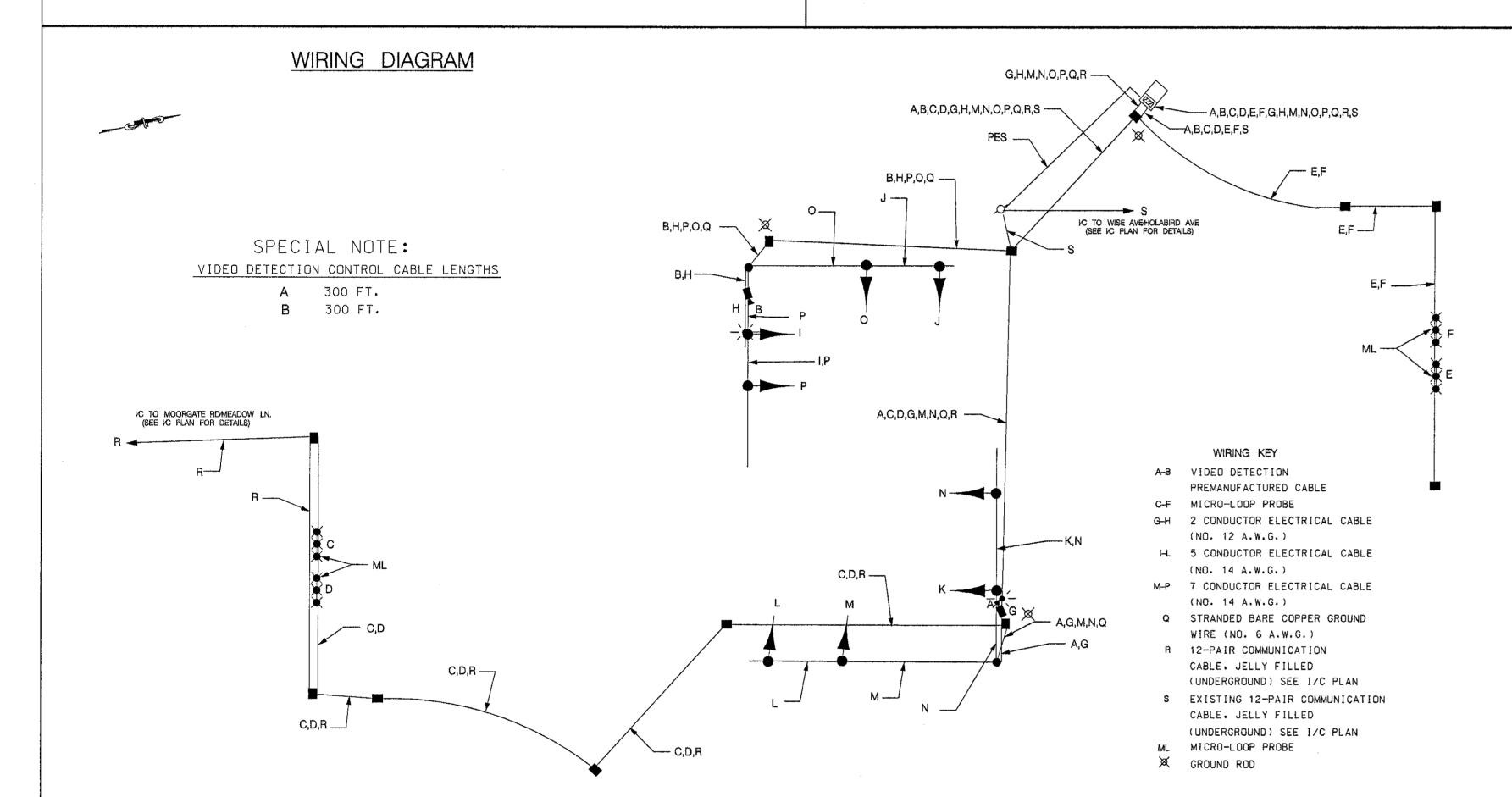
INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE. VIDEO DETECTION INTERFACE EQUIPMENT, AND ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS. ZIP CODE, AND PHONE NUMBER.

PHASE CHART





CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS: EQUIPMENT LIST "A" MR. STEVE MARCISZEWSKI

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 321-2781 (410) 321-2761

MS. SUENETTE POPE ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 321-2841

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630 MR. ROBERT SNYDER

ASSISTANT DIVISION CHIEF,

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676

(410) 787-7668

TRAFFIC OPERATIONS (410) 787-7631 MR. ED RODENHIZER

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE

TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

A. EQUIPMENT TO BE FURNISHED BY MSHA AND INSTALLED BY THE CONTRACTOR.

ITEM_NO.	QUANTITY	DESCRIPTION			
9016 9042	1 EA 1 EA	4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER CONTROLLER ASC II WITH TELEMETRY			
9044	1 EA	BASE MOUNTED CABINET NEMA SIZE 6			
9086	2 EA	VIDEO DETECTION INTERFACE EQUIPMENT 1-4 CAMERAS			
9571	53 SF	ALUMINUM SHEET			
		1 EACH R5-1 SIGN (30" X 30") GROUND MOUNT			
		2 EACH D3-1 DUAL FACE SIGN "SEARLES RD" (VAR. X 16") MAST ARM MOUNT 2 EACH M95-1 (72" X 24") MAST ARM MOUNT			

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.

ITEN	M NO. QUAN	NTITY	DESCRIPTION		
10	01 3 8	ĒA	MAINTENANCE OF TRAFFIC		
200)2 3 (CY	TEST PIT EXCAVATION		
500		LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT		
			THERMOPLASTIC PAVEMENT MARKING		
80	01 12	CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION		
800	9 2 1	EA	FURNISH AND INSTALL 300 FT. VIDEO DETECTION		
			CONTROL CABLE		
80	19 LS		REMOVE AND DISPOSE OF EXISTING EQUIPMENT		
802	27 15	LF	FURNISH AND INSTALL 4 IN. X 4 IN. WOOD SUPPORT		
802	29 345	5 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE		
803	35 185	i LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC		
			CONDUIT - BORED		
803	36 220) LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC		
			CONDUIT BORED		
803	88 605	5 LF	FURNISH AND INSTALL 3 IN SCHEDULE 80 RIGID ELECTRICAL PVC		
			CONDUIT - TRENCHED		
803	39 55	LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC		
			CONDUIT - TRENCHED		
804	42 130	LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC		
			CONDUIT - SLOTTED		
804	15 1 E	A	FURNISH AND INSTALL ELECTRICAL UTILITY SERVICE		
			EQUIPMENT 120/240 VOLTS, 60 AMPS		
804	16 50	LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO.4 AWG		
805	50 4 E	ĒΑ	FURNISH AND INSTALL NON INVASIVE PROBE WITH 500 FT.		
			LEAD-IN		
805	52 12	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE		
808	54 7 8	SF .	INSTALL GROUND MOUNTED SIGN		
808	55 46	SF	INSTALL OVERHEAD SIGN		
805	56 2 E	E A	FURNISH AND INSTALL VIDEO DETECTION CAMERA		
806	60 1 E	·A	FURNISH AND INSTALL 50 FT. TWIN MAST ARMS AND POLE		
808	34 1 E	EA	FURNISH AND INSTALL 27 FT. MAST ARM POLE WITH TWIN 50 FT./60 FT. MAST ARMS		
80	69 2	EA	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINIARE		
807	73 3 1	EA	FURNISH AND INSTALL GROUND ROD 3/4 IN DIAMETER X 10 FT. LENGTH		
80	75 24	EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION		
80	78 2	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE		
808	83 100) LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR		
			NO. 14 AWG		
808	880	0 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR		
			NO. 14 AWG		
808	85 400	O LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR		
			NO. 12 AWG TC		
808	87 40	LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR		
808	89 21	EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM ON SIGNAL STRUCTURE		
809	94 1 E	·A	INSTALL CONTROLLER AND CABINET BASE MOUNT		

EQUIPMENT LIST "C"

C. MSHA FORCES SHALL REMOVE CONTROLLER AND ALL AUXILIARY EQUIPMENT. CABINET AND ALL OTHER MATERIAL TO BE REMOVED BY THE CONTRACTOR AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite E Gambrills, MD 21054 (410) 923-7101

EMAIL: TRACONCEPT@AOL.COM FAX (410) 923-6473

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION SHEET

MD 157 AND SEARLES ROAD

1						
	DRAWN BY:	M.HOWELL	F.A.P. NO.	N/A	TS NO.	
	CHECKED BY:		S.H.A. NO.	AT357185	4340	SHEET NO.
	SCALE:	NONE	COUNTY:	BALTIMORE	T.I.M.S. NO.	
v	DATE:	8/2004	LOG MILE:		G350	4 OF5
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